

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	3430	((713/182) or (713/193) or (726/28-29)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/05/23 20:19
L4	1645	((713/182) or (713/193) or (726/28-29)).CCLS.	USPAT	OR	OFF	2007/05/23 20:19
L5	280	4 and (@pd > "20061006")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 20:19
L6	10	("5191611" "5513260" "5867579" "5953419" "6611812" "6691149" "6711553" "6813709" "6850252" "6938162").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/23 20:28
L7	0	(reproduction adj rule and audio and player).clm.	US-PGPUB; USPAT	OR	ON	2007/05/23 20:29
L8	0	(reproduction adj rule and audio).clm.	US-PGPUB; USPAT	OR	ON	2007/05/23 20:30
L9	1	(player and audio and (client user owner) near3 (id identifier identification number) with (decrypt descramble)).clm.	US-PGPUB; USPAT	OR	ON	2007/05/23 20:34
L10	0	("7231520").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/23 20:33
L11	8	(player and audio and (client user owner) near3 (id identifier identification number key) with (decrypt descramble)).clm.	US-PGPUB; USPAT	OR	ON	2007/05/23 20:34
S1	667	(713/193).CCLS.	USPAT; USOCR	OR	OFF	2007/02/27 13:57
S2	347	(713/171).CCLS.	USPAT; USOCR	OR	OFF	2006/05/31 17:35
S3	2	(player recorder recording adj medium) same (exchang\$3 send\$3) near3 (encryption adj key) with (user adj (identification identifier))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 17:37
S4	1	(player recorder recording adj medium) same (encrypt\$3 scrambl\$3 cipher\$3 encipher\$3) same (playback play adj back) near3 (encrypt\$3) with (user adj (identification identifier))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 17:40

inference search

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S5	3	(player recorder recording adj medium) same (encrypt\$3 scrambl\$3 cipher\$3 encipher\$3) same (playback play adj back) same (encrypt\$3) with (user adj (identification identifier))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 20:41
S6	0	kupka-michael.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 20:41
S7	317	kupka.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 20:42
S8	5	kupka.in. and hawkins.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 21:26
S9	917	(713/182).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/31 21:27
S10	1	("6170061").PN.	USPAT; USOCR	OR	OFF	2006/06/01 15:27
S11	1	("6070246").PN.	USPAT; USOCR	OR	OFF	2006/06/01 15:27
S12	1	("6070246").PN.	USPAT; USOCR	OR	OFF	2006/06/01 22:42
S13	1	("6381682").PN.	USPAT; USOCR	OR	OFF	2006/06/02 13:56
S14	2	("2717847").PN.	USPAT; USOCR	OR	OFF	2006/06/02 16:09
S15	1	("20020124182").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/02 16:10
S16	2	opportunity and "20020124182"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/02 16:11
S17	2	((("20040088544")) or ("20040085955")).PN.	US-PGPUB; USPAT	OR	OFF	2006/06/02 21:19

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S18	0	("20020004884").PN.	USPAT; USOCR	OR	OFF	2006/09/25 14:39
S19	1	("20020004884").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/25 14:39
S20	6	((("20020004884") or ("6,170,060") or ("6,453,369") or ("6,681,015") or ("6,738,877") or ("5,596,639"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/26 13:00
S21	0	masaki-mochizuki.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 13:01
S22	97	mochizuki-masaki.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 13:01
S23	5	("4757534" "5392351" "5400319" "5881038" "5886979").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/26 13:03
S24	108	("4757534").URPN.	USPAT	OR	ON	2006/09/26 13:15
S25	5	naruki-hidetoshi.in.	USPAT	OR	ON	2006/09/26 13:16
S26	10	naruki-hidetoshi.in.	US-PGPUB; USPAT	OR	ON	2006/09/26 13:16

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S27	90	("20020007456" "20020073336" "3609697" "3798605" "3806882" "3956615" "4168396" "4253157" "4278837" "4319079" "4433207" "4458315" "4528643" "4593376" "4658093" "4683553" "4685055" "4688169" "4740890" "4747139" "4757534" "4796220" "4817140" "4827508" "4864494" "4864616" "4885778" "4888798" "4896346" "4924378" "4949248" "4949379" "4991208" "4998279" "4999806" "5010571" "5023907" "5027398" "5046090" "5046092" "5047928" "5054064" "5058162" "5065429" "5070479" "5099516" "5103476" "5109413" "5113518" "5117458" "5119319" "5126728" "5138712" "5166886" "5199066" "5222134" "5235642" "5257373" "5260999" "5291598" "5293452" "5305447" "5337360" "5363483" "5438508" "5479509" "5490216" "5495411" "5509070" "5530752" "5606609" "5629980" "5634012" "5638443" "5646992" "5649013" "5717604" "5754864" "5765152" "5790664" "5933497" "6189146" "6243692" "6256393" "6266654" "6298317" "6343280" "6343295" "6434558" "6829368").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/26 14:18
S28	1	(cryptographic adj key adj generation adj using adj biometric).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/26 14:32
S29	0	kupka-michael.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/26 14:32
S30	113	kupka.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/26 15:00
S31	207	kupka.in.	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 15:00
S32	0	kupka.in. and (compound adj key).ti.	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 15:01

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S33	2	kupka.in. and (compound adj key)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 14:47
S34	778	((713/171) or (713/191)).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/26 15:27
S35	58	S34 and (@pd > "20060601")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 15:27
S36	1	("20030221113").PN.	US-PGPUB; USPAT	OR	OFF	2006/09/27 13:24
S37	2	("2003/0221113").URPN.	USPAT	OR	ON	2006/09/27 14:06
S38	493	(encrypt\$3 scrambl\$3) near5 user adj (information name id password)	USPAT	OR	ON	2006/09/27 14:07
S39	186	(encrypt\$3 scrambl\$3) near5 user adj (information name id password) same (transmit\$4 send\$3 exchang\$3)	USPAT	OR	ON	2006/09/27 14:09
S40	83	(encrypt\$3 scrambl\$3) near5 user adj (information name id password) same (transmit\$4 send\$3 exchang\$3) same (record\$3 sav\$3 stor\$3)	USPAT	OR	ON	2006/09/29 17:08
S41	0	(encrypt\$3 scrambl\$3) near5 user adj (information name id password) same (transmit\$4 send\$3 exchang\$3) same (record\$3 sav\$3 stor\$3) same player	USPAT	OR	ON	2006/09/27 14:18
S42	0	(encrypt\$3 scrambl\$3) near5 user adj (information name id password) same (transmit\$4 send\$3 exchang\$3) same player	USPAT	OR	ON	2006/09/27 14:18
S43	21	(encrypt\$3 scrambl\$3) near5 user adj (information name id password) same (transmit\$4 send\$3 exchang\$3) and player	USPAT	OR	ON	2006/09/27 14:20
S44	64	(encrypt\$3 scrambl\$3) same user adj (information name id password) with (transmit\$4 send\$3 exchang\$3) and player	USPAT	OR	ON	2006/09/27 14:25
S45	186	(encrypt\$3 scrambl\$3) near5 user adj (information name id password) same (transmit\$4 send\$3 exchang\$3)	USPAT	OR	ON	2006/09/27 14:25
S46	41	("5751813").URPN.	USPAT	OR	ON	2006/09/27 14:35

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S47	843	(encrypt\$3 scrambl\$3) near5 (user adj (information name id identifier) username password) same (transmit\$4 send\$3 exchang\$3)	USPAT	OR	ON	2006/09/29 17:11
S48	535	(encrypt\$3 scrambl\$3) near5 (user adj (information name id identifier) username password) with (transmi\$5 send\$3 exchang\$3)	USPAT	OR	ON	2006/09/29 17:13
S49	237	(encrypt\$3 scrambl\$3) near5 (user adj (information name id identifier) username password) same ((transmi\$5 send\$3 exchang\$3) with (encrypt\$3 scrambl\$3 public secret) adj key)	USPAT	OR	ON	2006/09/29 18:00
S50	1463	(playback) and (encrypt\$3 scrambl\$3) and record\$3 and (user adj (id identification identifier name))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/29 18:02
S51	854	player and (playback) and (encrypt\$3 scrambl\$3) and record\$3 and (user adj (id identification identifier name))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/05 12:42
S52	277	player and (playback) and (encrypt\$3 scrambl\$3) and record\$3 and (user adj (id identification identifier name))	USPAT	OR	ON	2006/09/29 18:21
S53	2	recording adj medium with contain\$3 with user adj (id identifier identification name)	USPAT	OR	ON	2006/09/29 18:24
S54	8	player same (playback play adj back) same (user adj (id identifier identification name) username)	USPAT	OR	ON	2006/09/29 18:25
S55	75	("6385596").URPN.	USPAT	OR	ON	2006/10/02 15:04
S56	2	kupka.in. and (compound adj key)	US-PGPUB; USPAT	OR	ON	2006/10/03 15:09
S57	1	("6507909").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/03 15:09
S58	5	player and (playback) same (encrypt\$3 scrambl\$3) same record\$3 same (user adj (id identification identifier name))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/05 12:42

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S59	40	(playback) same (encrypt\$3 scrambl\$3) same (user adj (id identification identifier name))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/05 13:21
S60	54	kim-jung.xa. kim-jung-w.xa. kim-jung-woo.xa.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 14:31
S61	1	("6327652").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/06 15:11
S62	1	("5892900").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/06 15:11
S63	87	("6327652").URPN.	USPAT	OR	ON	2006/10/06 15:34
S64	0	("8967084").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/06 15:35
S65	1	("6236971").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/06 15:35
S66	50	("6236971").URPN.	USPAT	OR	ON	2006/10/06 15:37
S67	2913	((713/182) or (713/193) or (726/28) or (726/29)).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/06 22:46
S68	412	S67 and (@pd > "20060412")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 16:42
S69	448	((726/28) or (726/29)).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/06 22:47
S70	70	S69 and (@pd > "20060412")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/06 22:47
S71	1546	((713/182) or (713/193) or (726/28) or (726/29)).CCLS.	USPAT; USOCR	OR	OFF	2007/02/27 13:58
S72	180	S71 and (@pd > "20061006")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 13:58
S73	1	("6453369").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/27 14:16

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S74	167	(reproduc\$4 replica\$4 play\$3) near2 (constraint rule requirement policy) same (authentica\$3 verification verif\$4 validat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 15:01
S75	36	(playback same player adj (id identifier))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/27 15:02
S76	53	("3763330" "4266243" "4393277" "4455651" "4473824" "4499568" "4682368" "4698776" "4725977" "4772873" "4788543" "4788675" "4851931" "4941040" "4989179" "5042070" "5055947" "5065258" "5099422" "5132992" "5159182" "5172413" "5181107" "5191410" "5191573" "5210611" "5247347" "5251909" "5253275" "5311423" "5359698" "5371532" "5383112" "5420690" "5440336" "5442389" "5491774" "5491820" "5493677" "5524051" "5539658" "5541638" "5557541" "5572442" "5579471" "5634080" "5664228" "5675734" "5699526" "5727156" "5727159" "5732219" "5752244").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/27 15:02
S77	105	("5926624").URPN.	USPAT	OR	ON	2007/02/27 15:09
S78	0	(playback same (smart adj card) same player adj (id identifier))	USPAT	OR	ON	2007/02/27 15:10
S79	0	(playback and (smart adj card ic adj card) same player adj (id identifier))	USPAT	OR	ON	2007/02/27 15:10
S80	0	(playback and (user adj identification adj module) same player adj (id identifier))	USPAT	OR	ON	2007/02/27 15:11
S81	0	(user adj identification adj module) same player adj (id identifier)	USPAT	OR	ON	2007/02/27 15:11
S82	1	(user adj identification adj module) same player adj (id identifier)	US-PGPUB; USPAT	OR	ON	2007/02/27 15:11
S83	1	(user adj (id identification) adj module) same player adj (id identifier)	US-PGPUB; USPAT	OR	ON	2007/02/27 15:12

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S84	2	playback same (user adj (id identification) adj module)	US-PGPUB; USPAT	OR	ON	2007/03/01 12:37
S85	1	("5596639").PN.	US-PGPUB; USPAT	OR	OFF	2007/03/01 13:09
S86	43	playback and (smartcard (ic smart adj card) same user adj (identifier id)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/01 13:12
S87	1	("6385596").PN.	US-PGPUB; USPAT	OR	OFF	2007/03/01 13:33
S88	1603	(726/22-24).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/03/01 13:33
S89	268	S88 and (@pd > "20060817")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/01 13:34
S90	1	("6341373").PN.	US-PGPUB; USPAT	OR	OFF	2007/03/01 13:34
S91	20	("6341373").URPN.	USPAT	OR	ON	2007/03/01 13:36
S92	5	(upgrade same (trust valid\$4 authentic authenticat\$3) same (activex javascript visual adj basic applet))	USPAT	OR	ON	2007/03/01 13:37
S93	5	(upgrade same (trust\$2 valid\$4 authentic authenticat\$3) same (activex javascript visual adj basic applet))	USPAT	OR	ON	2007/03/01 13:39
S94	23	(upgrade same (trust\$2 valid\$4 authentic authenticat\$3) same (browser))	USPAT	OR	ON	2007/03/01 13:39
S95	16	("4035835" "5436673" "5680458" "5752042" "5790796" "5808628" "5867166" "5870759" "5974461" "5991542" "6006034" "6009274" "6049628" "6049671" "6199204" "6202207").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/01 13:41
S96	0	player same audio and (reproducing adj (constraint rule policy restriction))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/02 17:04

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S97	185	player same (music audio) and (reproducing with (constraint rule policy restriction))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/02 17:04
S98	363	player same (music audio) and ((reproduction reproducing) with (constraint rule policy restriction))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/02 17:05
S99	3	("4823333" "5764607" "6529452").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/02 20:01
S10 0	1	("6170060").PN.	US-PGPUB; USPAT	OR	OFF	2007/03/02 20:01
S10 1	21	("6170060").URPN.	USPAT	OR	ON	2007/03/02 20:02
S10 2	28	("5133079" "5629980" "5634012" "5638443" "5640453" "5715403" "5819032" "5857020" "5875108" "5875298" "5892900" "5901246" "5910987" "5915019" "5917912" "5926624" "5933498" "5940504" "5949876" "5982891" "6081750" "6092080" "6115818" "6170060" "6499106" "6502079" "6560651" "6647417").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/02 20:34
S10 3	86	server adj authoriz\$3 adj access	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/02 20:54
S10 4	21	("6170060").URPN.	USPAT	OR	ON	2007/03/02 20:45
S10 5	14	("5068894" "5452357" "5715403" "5745568" "5870470" "5926624" "5937066" "5956408" "5978482" "5995624" "6005943" "6072876" "6170060" "6384893").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/02 20:47
S10 6	7	server adj authoriz\$3 adj access with (code identifier id)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/02 21:10
S10 7	16	server adj authoriz\$3 adj access and (playback player)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/02 20:54

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S10 8	28	("5133079" "5629980" "5634012" "5638443" "5640453" "5715403" "5819032" "5857020" "5875108" "5875298" "5892900" "5901246" "5910987" "5915019" "5917912" "5926624" "5933498" "5940504" "5949876" "5982891" "6081750" "6092080" "6115818" "6170060" "6499106" "6502079" "6560651" "6647417").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/02 20:58
S10 9	11	("4405829" "4932054" "4977594" "5136646" "5136647" "5247575" "5771291" "6088451" "6104679" "6134324" "6192405").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/02 21:01
S11 0	0	server adj authoriz\$3 adj access same (music dvd movie cd)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/02 21:10
S11 1	0	server adj authoriz\$3 adj playback	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/02 21:10
S11 2	44	server with authoriz\$3 with playback	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/03 13:18
S11 3	51	("4709813" "4710754" "4967185" "5023907" "5128752" "5305195" "5305197" "5347508" "5353218" "5410343" "5420403" "5483658" "5568275" "5651064" "5673195" "5696898" "5734719" "5751672" "5802294" "5804810" "5822291" "5860068" "5892900" "5892908" "5893910" "5895073" "5899980" "5915093" "5920694" "5930238" "5940504" "5960398" "5987525" "5991798" "6006328" "6009410" "6012071" "6016166" "6018768" "6034937" "6035329" "6044403" "6055314" "6070171" "6097291" "6097814" "6101180" "6128649" "6182222" "6199048" "6289452").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/02 21:41
S11 4	596	burst adj cutting adj area	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/02 21:41

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S11 5	6	burst adj cutting adj area same authorizat\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/02 21:54
S11 6	1	("6035329").PN.	US-PGPUB; USPAT	OR	OFF	2007/03/02 22:14
S11 7	44	("3829833" "3911397" "3924065" "3946220" "3970992" "4070692" "4071911" "4112421" "4209787" "4217588" "4220991" "4232317" "4270182" "4305098" "4528643" "4555803" "4577289" "4633207" "5027396" "5222134" "5319705" "5321750" "5365272" "5375068" "5388097" "5400403" "5410354" "5410698" "5450489" "5457668" "5457746" "5499252" "5509070" "5535199" "5535327" "5550577" "5553139" "5553143" "5559608" "5563947" "5613004" "5629980" "5636276" "5638443").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/02 22:05
S11 8	1	("5892825").PN.	US-PGPUB; USPAT	OR	OFF	2007/03/02 22:14
S11 9	44	("3829833" "3911397" "3924065" "3946220" "3970992" "4070692" "4071911" "4112421" "4209787" "4217588" "4220991" "4232317" "4270182" "4305098" "4528643" "4555803" "4577289" "4633207" "5027396" "5222134" "5319705" "5321750" "5365272" "5375068" "5388097" "5400403" "5410354" "5410698" "5450489" "5457668" "5457746" "5499252" "5509070" "5535199" "5535327" "5550577" "5553139" "5553143" "5559608" "5563947" "5613004" "5629980" "5636276" "5638443").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/02 22:18
S12 0	0	server with authoriz\$3 with playback and bsr	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/03 13:18
S12 1	3	server with authoriz\$3 with playback and bca	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/03 13:34

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S12 4	1424	authenticat\$3 with (player playback) not S123	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/03/03 13:53
S12 5	377	authenticat\$3 with (player playback) not S123	USPAT	OR	ON	2007/03/03 15:08
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1 [Consistency management and cheat detection: Protecting online games against cheating](#)



Christian Mönch, Gisle Grimen, Roger Midtstraum

 October 2006 **Proceedings of 5th ACM SIGCOMM workshop on Network and system support for games NetGames '06**

Publisher: ACM Press

 Full text available: [pdf\(185.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We present a technique to prevent cheating in online-games. Our approach prevents both, modification of game-clients, and access to sensitive information in the game-clients' memory. It allows game-servers to detect cheating attempts. The mechanisms in our solution are orthogonal to the game-related mechanisms, allowing to clearly separate security-related aspects from the game design. In this way the basic game is design does not have to be influenced by considerations about cheating and sec ...

2 [Digital multimedia book: From digital audiobook to secure digital multimedia-book](#)



Lavinia Egidi, Marco Furini

 July 2006 **Computers in Entertainment (CIE)**, Volume 4 Issue 3

Publisher: ACM Press

 Full text available: [pdf\(364.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Portable devices and wireless connections are creating a new scenario in which digital information is entering our lives in a massive way. In this article we consider MP3 audiobook applications and propose an approach to completely restyle the applications to the current mobile and multimedia scenario. Our mechanism introduces multimedia contents (images and text) into the audiobook application and synchronizes them with the MP3 audio stream. Multimedia contents are protected by a security syste ...

Keywords: multimedia applications, multimedia communications, multimedia over wireless, music distribution

3 [DVD players](#)

Dave Phillips

 December 2003 **Linux Journal**, Volume 2003 Issue 116

Publisher: Specialized Systems Consultants, Inc.

 Full text available: [html\(32.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

Dave compares and tests the best DVD-playing software.

4 Security: SECA: security-enhanced communication architecture



Joel Coburn, Srivaths Ravi, Anand Raghunathan, Srimat Chakradhar

September 2005 **Proceedings of the 2005 international conference on Compilers, architectures and synthesis for embedded systems CASES '05**

Publisher: ACM Press

Full text available: [pdf\(396.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this work, we propose and investigate the idea of enhancing a System-on-Chip (SoC) communication architecture (the fabric that integrates system components and carries the communication traffic between them) to facilitate higher security. We observe that a wide range of common security attacks are manifested as abnormalities in the system-level communication traffic. Therefore, the communication architecture, with its global system-level visibility, can be used to detect them. The communicati ...

Keywords: AMBA Bus, access control, architecture, attacks, bus, communication, digital rights management (DRM), intrusion detection, security, security-aware design, small embedded systems, system-on-chip (SoC)

5 DRM experience: Digital rights management in a 3G mobile phone and beyond



Thomas S. Messerges, Ezzat A. Dabbish

October 2003 **Proceedings of the 3rd ACM workshop on Digital rights management DRM '03**

Publisher: ACM Press

Full text available: [pdf\(306.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we examine how copyright protection of digital items can be securely managed in a 3G mobile phone and other devices. First, the basic concepts, strategies, and requirements for digital rights management are reviewed. Next, a framework for protecting digital content in the embedded environment of a mobile phone is proposed and the elements in this system are defined. The means to enforce security in this system are described and a novel "Family Domain" approach to content management ...

Keywords: MPEG-21, copyright protection, cryptography, digital content, digital rights management, embedded system, key management, mobile phone, open mobile alliance, security

6 DRM usability and legal issues: On the implications of machine virtualization for DRM and fair use: a case study of a virtual audio device driver



Ninad Ghodke, Renato Figueiredo

October 2004 **Proceedings of the 4th ACM workshop on Digital rights management DRM '04**

Publisher: ACM Press

Full text available: [pdf\(328.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper examines the architecture of present day systems and shows that they are not trustworthy enough to support certain DRM features/restrictions, even when the DRM delivery system exclusively utilizes signed and protected operating system components. This weakness was discovered while creating a technique for remote transfer of audio streams generated by a Virtual Machine Monitor (VMM), to achieve network transparency for audio devices. The technique is based on the implementation of h ...

Keywords: digital rights management, virtual devices, virtual machines

7 Fair exchange in E-commerce



Indrajit Ray, Indrakshi Ray

March 2002 **ACM SIGecom Exchanges**, Volume 3 Issue 2

Publisher: ACM Press

Full text available: pdf(45.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many business transactions over the Internet involve the exchange of digital products between two parties - electronic mails, digital audio and video, electronic contract signing and digital signatures, to name a few. Often these transactions occur between players that do not trust each other. To facilitate such transactions, a number of secure protocols have been proposed. The main objective of these protocols is: either both the parties obtain each other's items or none do. Sometimes it is not ...

Keywords: electronic commerce, fair-exchange, protocols, security

8 Coding and Encryption: On error preserving encryption algorithms for wireless video transmission



Ali Saman Saman Tosun, Wu-chi Feng

October 2001 **Proceedings of the ninth ACM international conference on Multimedia MULTIMEDIA '01**

Publisher: ACM Press

Full text available: pdf(157.93 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we describe error preserving encryption mechanisms for transmission of video over wireless networks. One of the main problems with the secure transmission of data over wireless networks is that the bit errors that occur need to typically be resolved *before* decryption can begin. For video streaming applications, this is unacceptable due to the general requirement that video be presented to the user in a continuous manner with low latency. In this paper, we describe a systematic ...

Keywords: video encryption, wireless video transmission

9 DRM experience: Analysis of security vulnerabilities in the movie production and distribution process



Simon Byers, Lorrie Cranor, Dave Korman, Patrick McDaniel, Eric Cronin

October 2003 **Proceedings of the 3rd ACM workshop on Digital rights management DRM '03**

Publisher: ACM Press

Full text available: pdf(285.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Unauthorized copying of movies is a major concern for the motion picture industry. While unauthorized copies of movies have been distributed via portable physical media for some time, low-cost, high-bandwidth Internet connections and peer-to-peer file sharing networks provide highly efficient distribution media. Many movies are showing up on file sharing networks shortly after, and in some cases prior to, theatrical release. It has been argued that the availability of unauthorized copies directl ...

Keywords: digital rights management, file sharing, insider attacks, multimedia, physical security, policy

10 Security: Key-assignment strategies for CPPM

André Adelsbach, Jörg Schwenk

September 2004 **Proceedings of the 2004 workshop on Multimedia and security MM&Sec '04**

Publisher: ACM Press

Full text available: pdf(454.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

CSS, the first system to protect multimedia content on the new DVD medium failed badly, because both its encryption algorithm and its key management could easily be broken. A new industry initiative, the 4C Entity, LLC (founded by IBM, Intel, Matsushita and Toshiba), presents a more mature approach, called "Copy Protection for Prerecorded Media" (CPPM), which has already been adopted in DVD-Audio. A key-feature of CPPM is its advanced key-management, which allows for system renewability by revoki ...

Keywords: CPPM, content protection, device revocation, key-assignment, key-management

11 Content analysis: A novel encryption algorithm for high resolution video

Fuwen Liu, Hartmut Koenig

June 2005 **Proceedings of the international workshop on Network and operating systems support for digital audio and video NOSSDAV '05**

Publisher: ACM Press

Full text available: pdf(335.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The popularity of multimedia applications is rapidly growing nowadays. The confidentiality of video communication is of primary concern for their commercial use, e.g. in video on demand services or in multiparty video conferences. Specific video encryption algorithms are strongly required in real-time multimedia communication to fulfill the strict timing requirements. In this paper we present a novel video encryption algorithm, called *Puzzle*, to encrypt video data in software. It is fast ...

Keywords: data security, multimedia communication, real-time video encryption, video compression

12 Q focus: mobile applications: Mobile media: making it a reality

Fred Kitson

May 2005 **Queue**, Volume 3 Issue 4

Publisher: ACM Press

Full text available: pdf(528.08 KB) html(31.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Two prototype apps reveal the challenges in delivering mobile media services.

13 Digital rights management for content distribution

Qiong Liu, Reihaneh Safavi-Naini, Nicholas Paul Sheppard

January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(224.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Transferring the traditional business model for selling digital goods linked to physical media to the online world leads to the need for a system to protect digital intellectual property. Digital Rights Management(DRM) is a system to protect high-value digital assets and control the distribution and usage of those digital assets. This paper presents a

review of the current state of DRM, focusing on security technologies, underlying legal implications and main obstacles to DRM deployment with the ...

Keywords: DRM, digital content


14 Speech and audio in window systems: when will they happen?



B. Arons, C. Schmandt, M. Hawley, H. Ludwig, P. Zellweger

July 1989 **ACM SIGGRAPH Computer Graphics , ACM SIGGRAPH 89 Panel
Proceedings SIGGRAPH '89**, Volume 23 Issue 5

Publisher: ACM Press

Full text available:  pdf(2.78 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Good afternoon. Boy, I can't see anything out there. I assume you all can see me -- thats why these lights are here. My name is Chris Schmandt from the Media Lab at MIT. I'm co-chairing this panel with Barry Arons, who is sitting over here. It's actually quite a pleasure to co-chair this panel with Barry. We've been working together off and on for more years than I care to remember.

This panel has a long ridiculous name. Basically it's about audio and window systems and work ...


15 Physical privacy: Privacy management for portable recording devices



J. Alex Halderman, Brent Waters, Edward W. Felten

October 2004 **Proceedings of the 2004 ACM workshop on Privacy in the electronic society WPES '04**

Publisher: ACM Press

Full text available:  pdf(321.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The growing popularity of inexpensive, portable recording devices, such as cellular phone cameras and compact digital audio recorders, presents a significant new threat to privacy. We propose a set of technologies that can be integrated into recording devices to provide stronger, more accurately targeted privacy protections than other legal and technical measures now under consideration. Our design is based on an informed consent principle, which it supports by the use of novel devices and pr ...

Keywords: camera phones, privacy, recording devices

16 The IP war: apocalypse or revolution?



Tsvi Gal, Howard M. Singer, Laird Popkin

October 2003 **Proceedings of the 3rd ACM workshop on Digital rights management DRM '03**

Publisher: ACM Press

Full text available:  pdf(248.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the Foundation series, Asimov predicted a 1,000 years of darkness following the fall of the galactic empire. In the book Noir, K.W Jeter describes a world where IP is the ultimate war. Combine them together and you have likely scenario No. 1. The Internet era enabled communication and information exchange on a global scale. But it also opened the door to copyright infringement on a global scale. Music, books, movies, software, games, speeches, research papers - everything is now fair game. The ...

Keywords: digital distribution, digital rights management, intellectual property, on-line music

17 Digital rights management: Support for multi-level security policies in DRM**architectures**

Bogdan C. Popescu, Bruno Crispo, Andrew S. Tanenbaum

September 2004 **Proceedings of the 2004 workshop on New security paradigms NSPW '04****Publisher:** ACM PressFull text available: pdf(127.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Digital rights management systems allow copyrighted content to be commercialized in digital format without the risk of revenue loss due to piracy. Making such systems secure is no easy task, given that content needs to be protected while accessed through electronic devices in the hands of potentially malicious end-users; in this context, intrusion tolerance becomes a very useful system property. In this paper we point out a limitation shared by all current DRM architectures, namely their weakness ...

18 Net.Speech: desktop audio comes to the net**Larry Press**October 1995 **Communications of the ACM**, Volume 38 Issue 10**Publisher:** ACM PressFull text available: pdf(310.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the 1940s, the first research computers worked on numeric data. A few years later, the UNIVAC, was designed for both numeric and alphanumeric data. Over time, technology advances have made other data types economically feasible—text, images, sound, and video.

19 Emerging applications: DRM: doesn't really mean digital copyright management**L. Jean Camp**November 2002 **Proceedings of the 9th ACM conference on Computer and communications security CCS '02****Publisher:** ACM PressFull text available: pdf(258.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Copyright is a legal system embedded in a larger technological system. In order to examine the functions of copyright it is critical to examine the larger technological context of copyright: analog media and printed paper in particular. The copyright system includes both the explicit mechanisms implemented by law and the implicit mechanisms resulting from the technologically determinant features of paper and print. In order to prevent confusion between the legal, technical, and economic elements ...

Keywords: DRM, DeCSS, copyright, design for values, ethics, fair use, intellectual property, science and technology studies

20 VARIATIONS: a digital music library system at Indiana University**Jon W. Dunn, Constance A. Mayer**August 1999 **Proceedings of the fourth ACM conference on Digital libraries DL '99****Publisher:** ACM PressFull text available: pdf(122.41 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: digital audio, digital libraries, music libraries

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